

Filter Wizard

Created by Peter Hoppe on 6/30/2017

**ANALOG
DEVICES**

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Filter Wizard Design Report

Filter Requirements for Band-Pass, 8th order Butterworth Bessel 0.95

Specifications: Optimize for Power, +Vs= 15, -Vs= -15, GBW comp

Gain: 3 dB

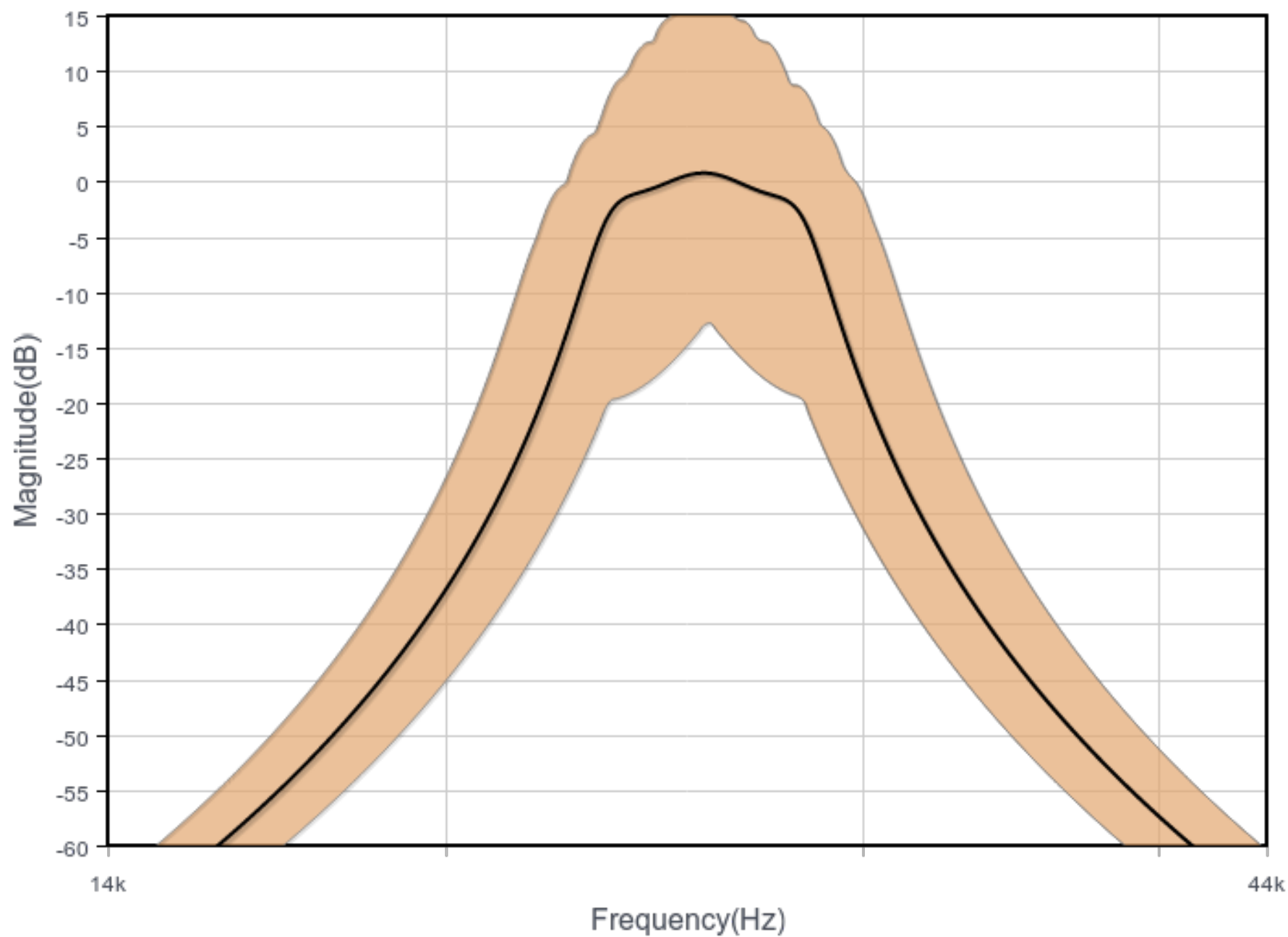
Passband: -3dB at 4kHz

Stopband: -40dB at 15kHz

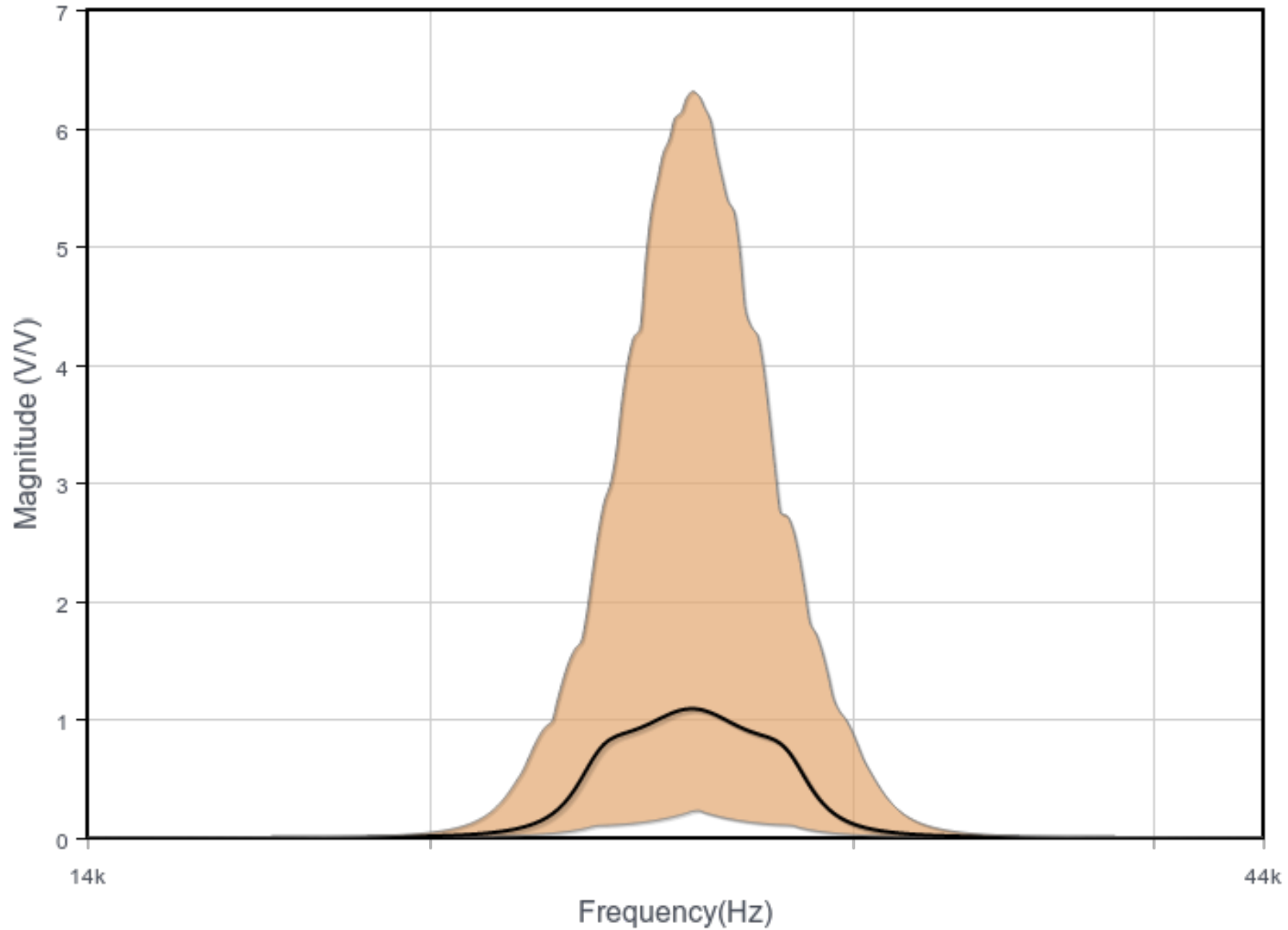
Component Tolerances: Capacitor = 5%; Resistor = 1%; Inductor = 5%; Op Amp GBW = 20%

BOM: refer to BOM.csv file

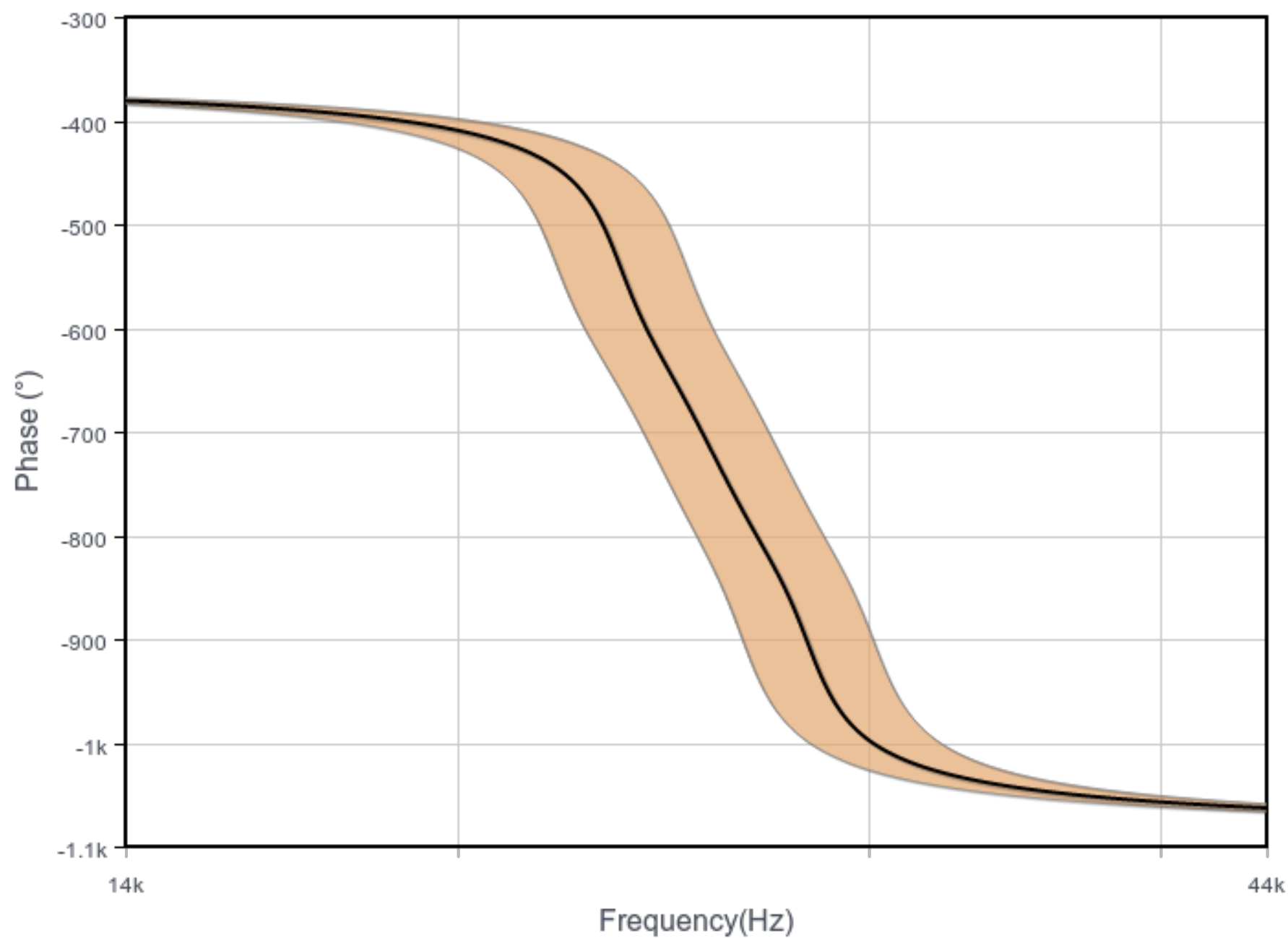
Magnitude(dB)



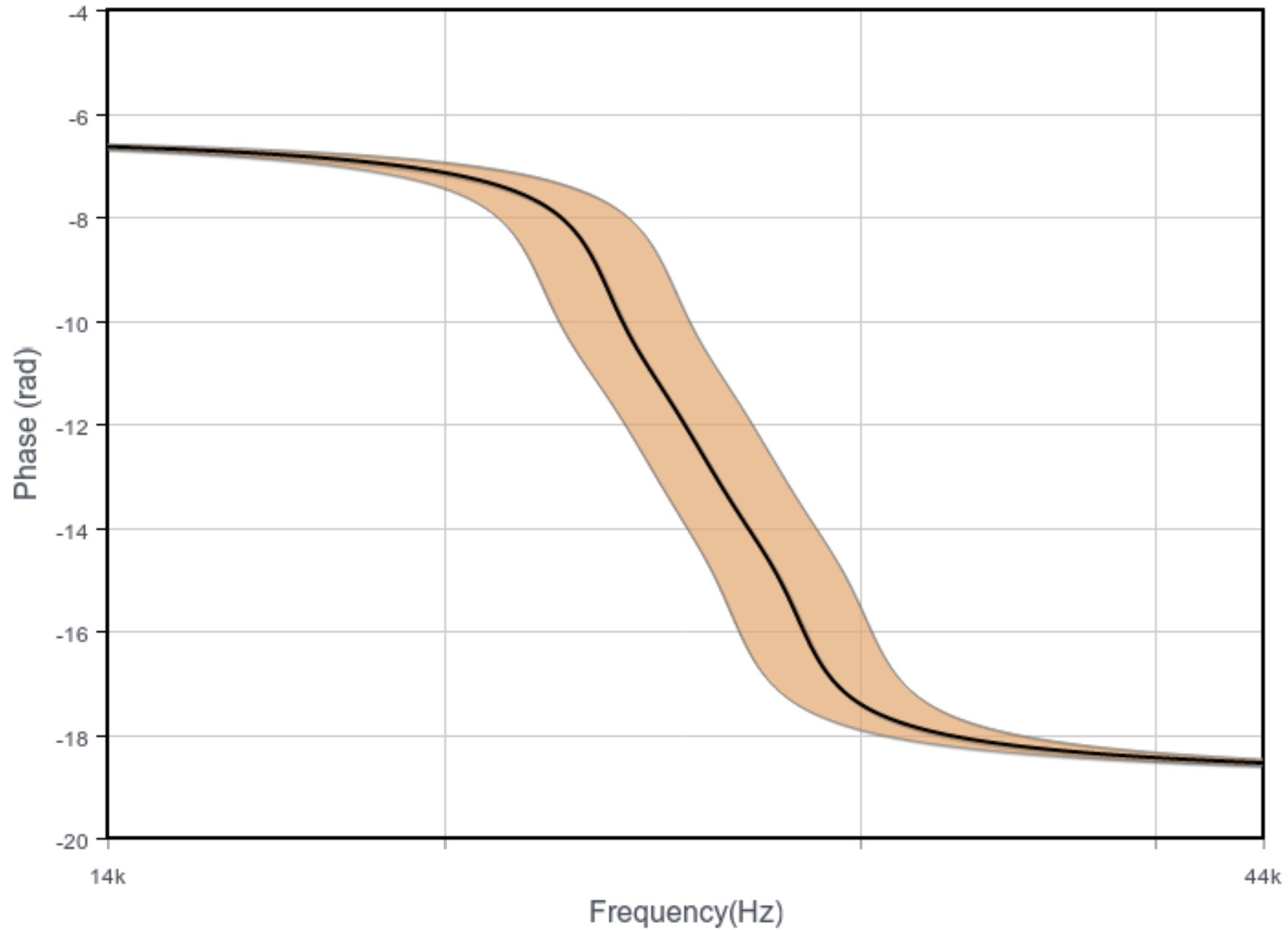
Magnitude(Volts per Volt)



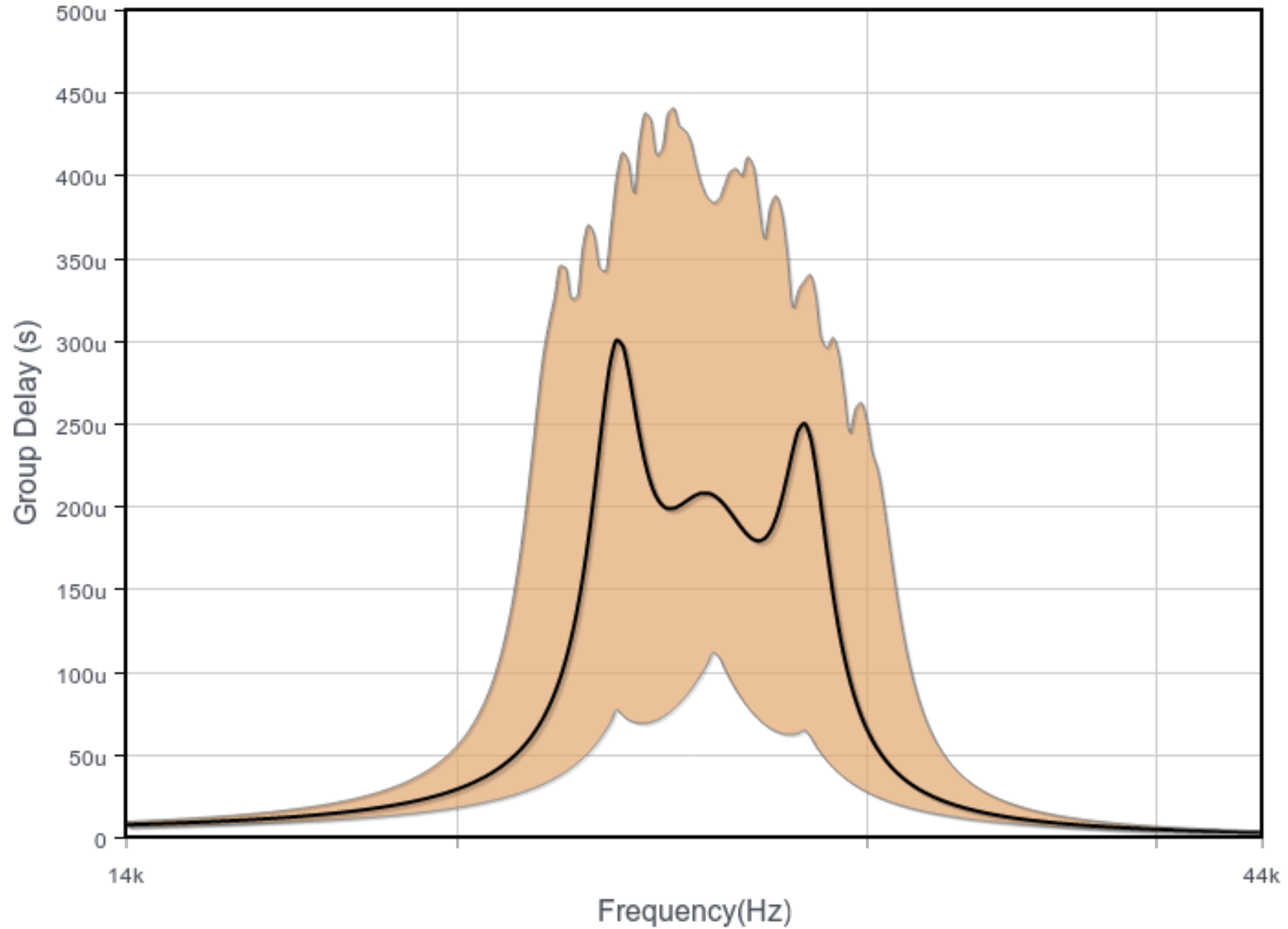
Phase(degrees)



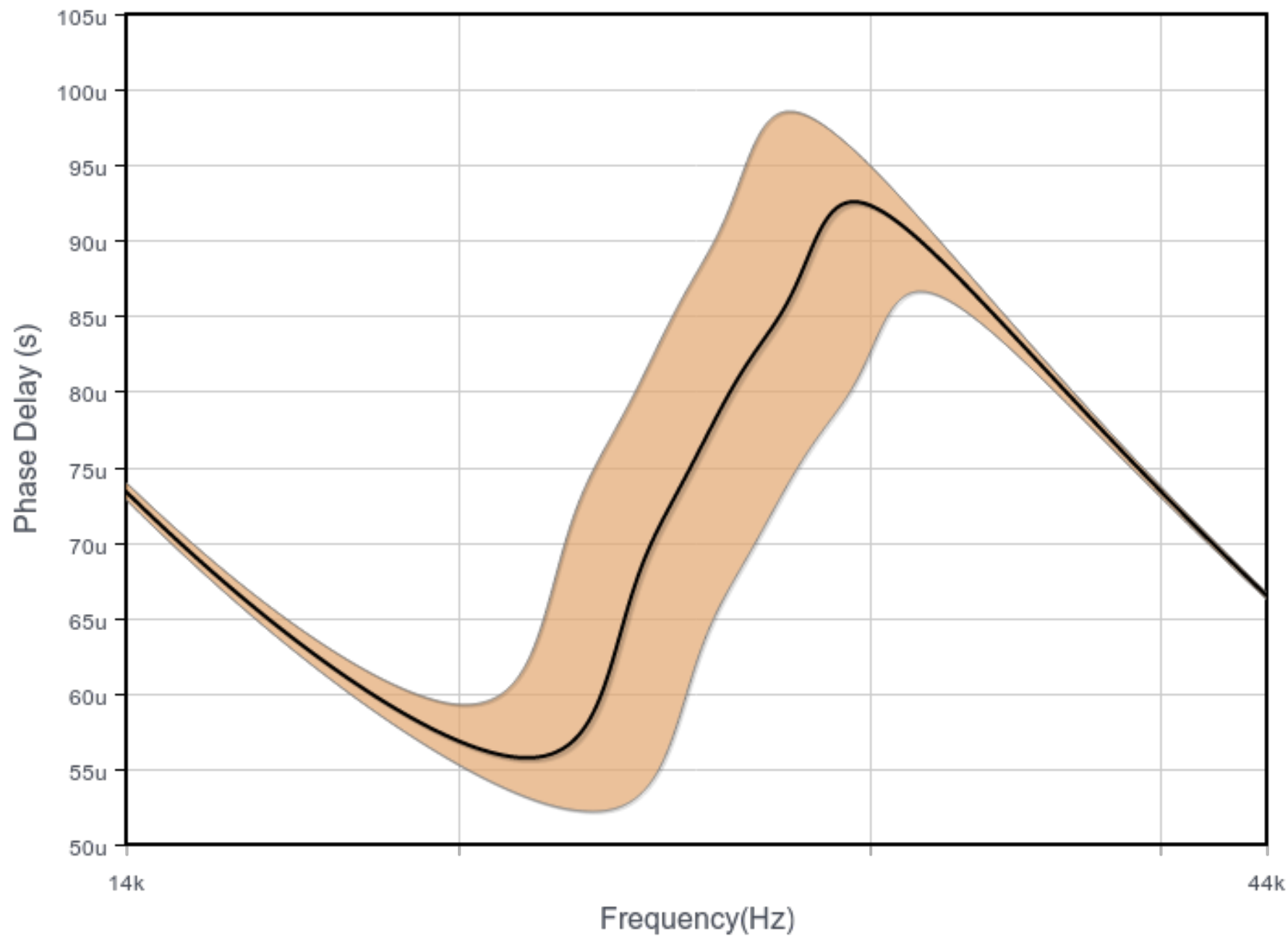
Phase(radians)



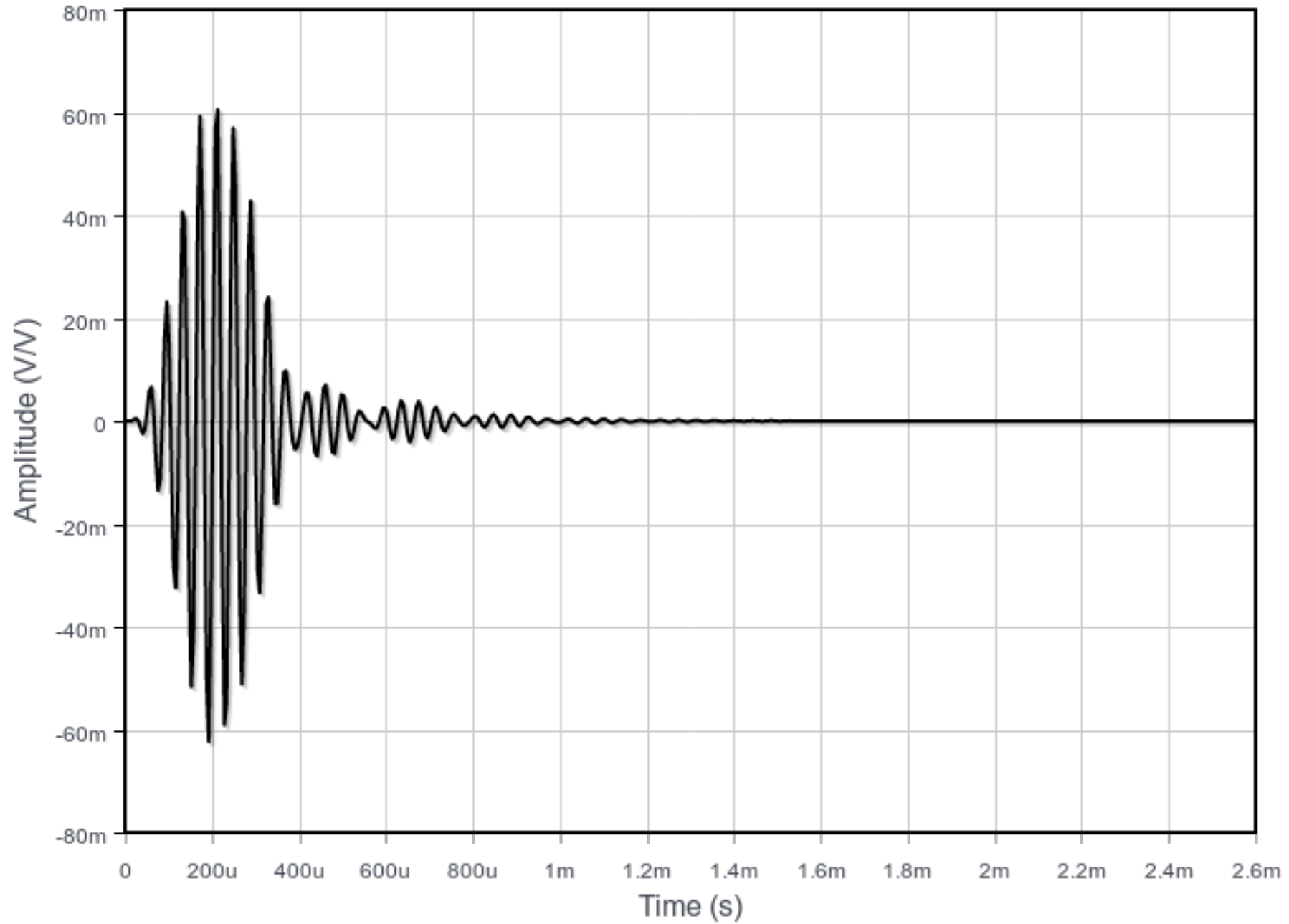
Group Delay



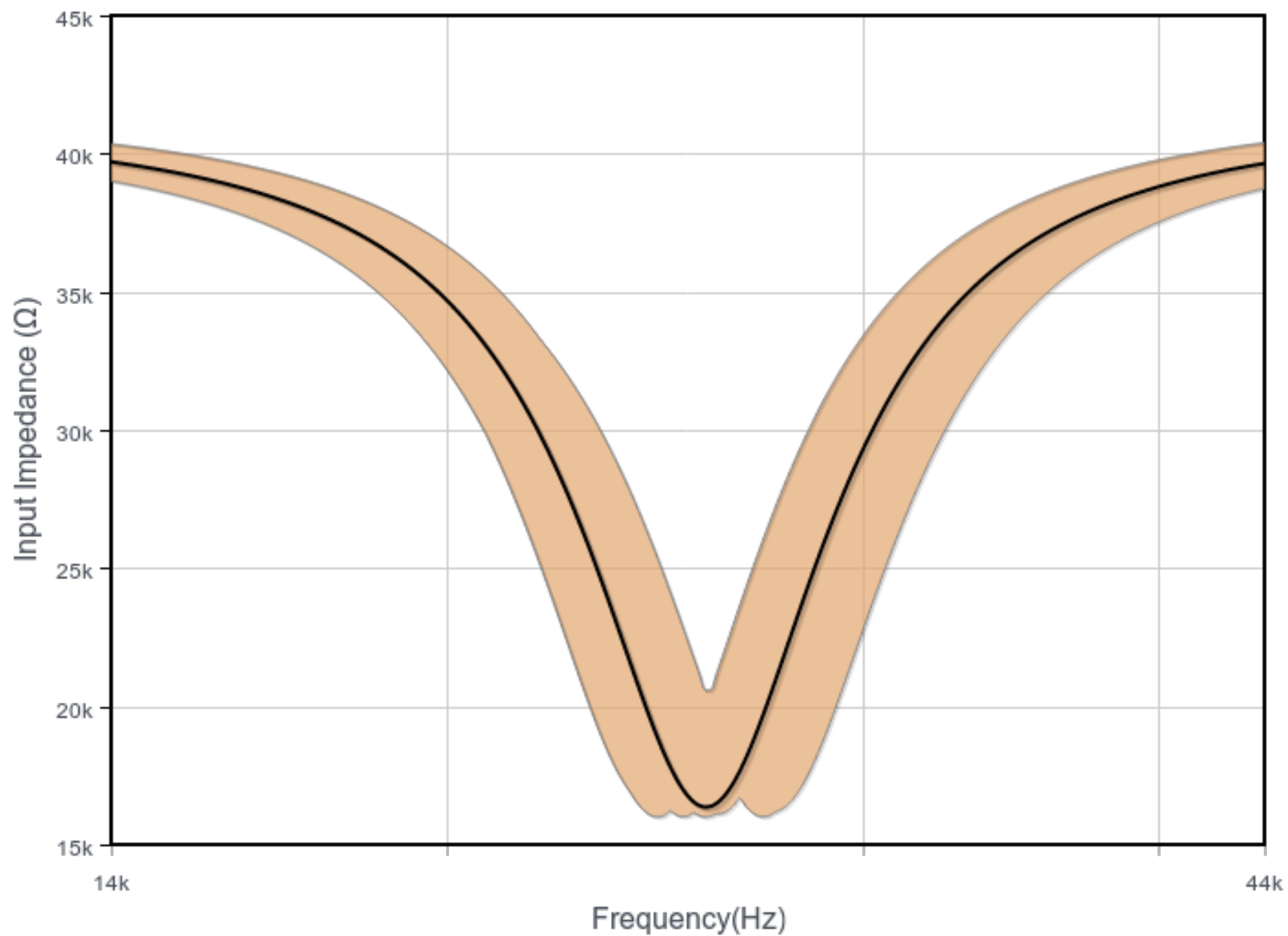
Phase Delay



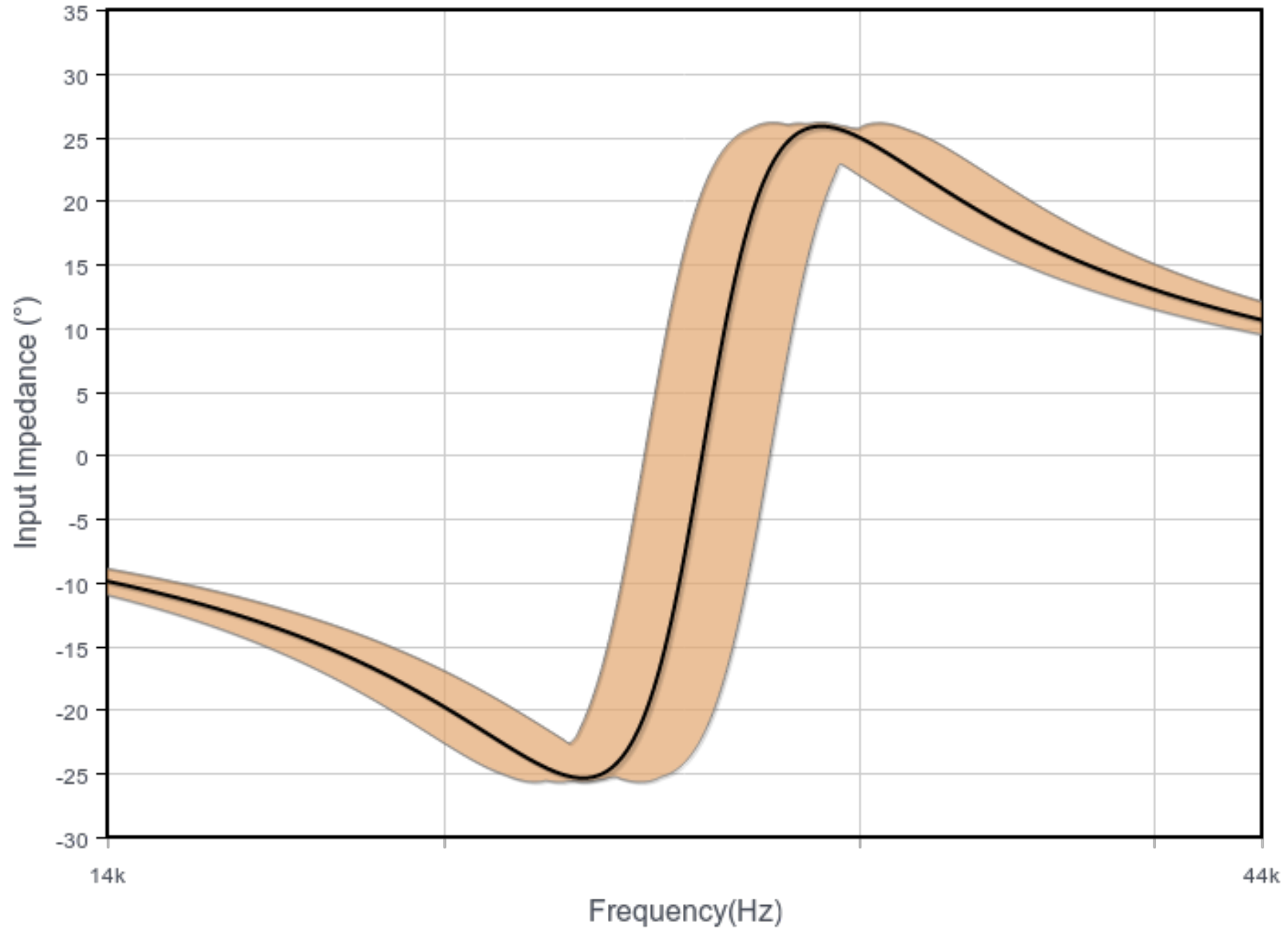
Step Response



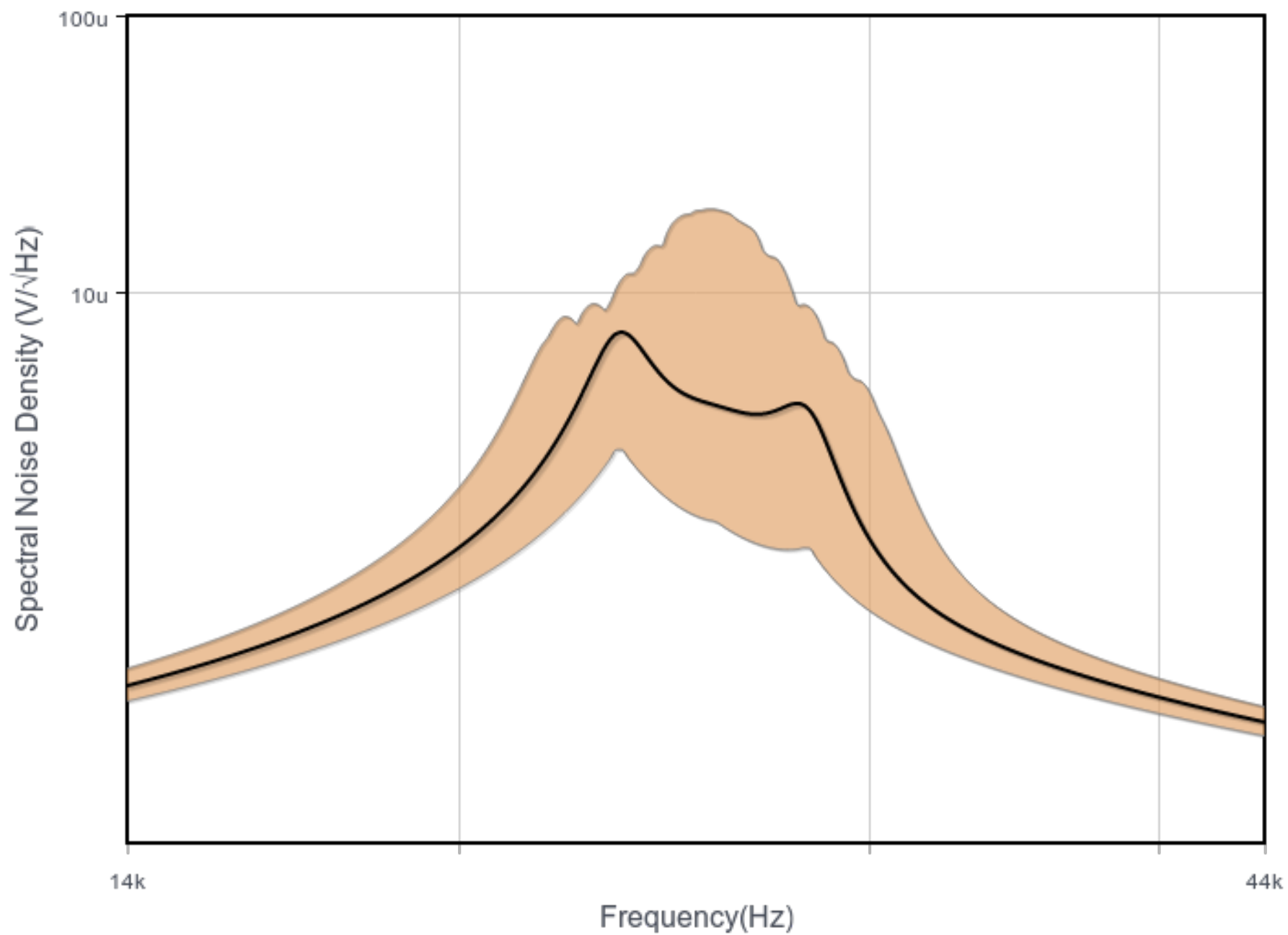
Input Impedance Magnitude



Input Impedance Phase



Noise



Circuit

